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- 26. An isolated nucleic acid molecule that encodes a UDP-galactose 4-epimerase polypeptide and remains hybridized with the isolated polynucleotide of Claim 23 under a wash condition of 0.1X SSC, 0.1% SDS, and 65°C.
- 27. A cell or a virus comprising the polynucleotide of Claim 23.
- 28. The cell of Claim 27, wherein the cell is selected from the group consisting of a yeast cell, a bacterial cell, an insect cell, and a plant cell.
- 29. A transgenic plant comprising the polynucleotide of Claim 23.
- 30. A method for transforming a cell comprising introducing into a cell the polynucleotide of Claim 23.
- 31. A method for producing a transgenic plant comprising (a) transforming a plant cell with the polynucleotide of Claim 23, and (b) regenerating a plant from the transformed plant cell.
- 32. An isolated a UDP-galactose 4-epimerase polypeptide having a sequence identity of at least 80% based on the Clustal method compared to an amino acid sequence selected from the group consisting of SEQ ID NOs: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, and 24.
- 33. The isolated polypeptide of Claim 32 wherein the polypeptide has a sequence selected from the group consisting of SEQ ID NOs: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, and 24.
- 34. A chimeric gene comprising the polynucleotide of Claim 23 operably linked to at least one suitable regulatory sequence.
- 35. The chimeric gene of Claim 34, wherein the chimeric gene is an expression vector.
- 36. A method for altering the level of a UDP-galactose 4-epimerase polypeptide expression in a host cell, the method comprising:
 - (a) Transforming a host cell with the chimeric gene of claim 34; and
 - (b) Growing the transformed cell in step (a) under conditions suitable for the expression of the chimeric gene. --

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